

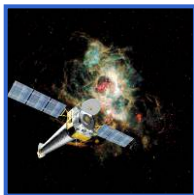
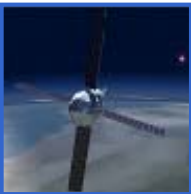


# George C. Marshall Space Flight Center (MSFC)

## Doing Business with NASA/ George C. Marshall Space Flight Center

**Presenter: Mr. David E. Brock, MSFC Small  
Business Specialist**

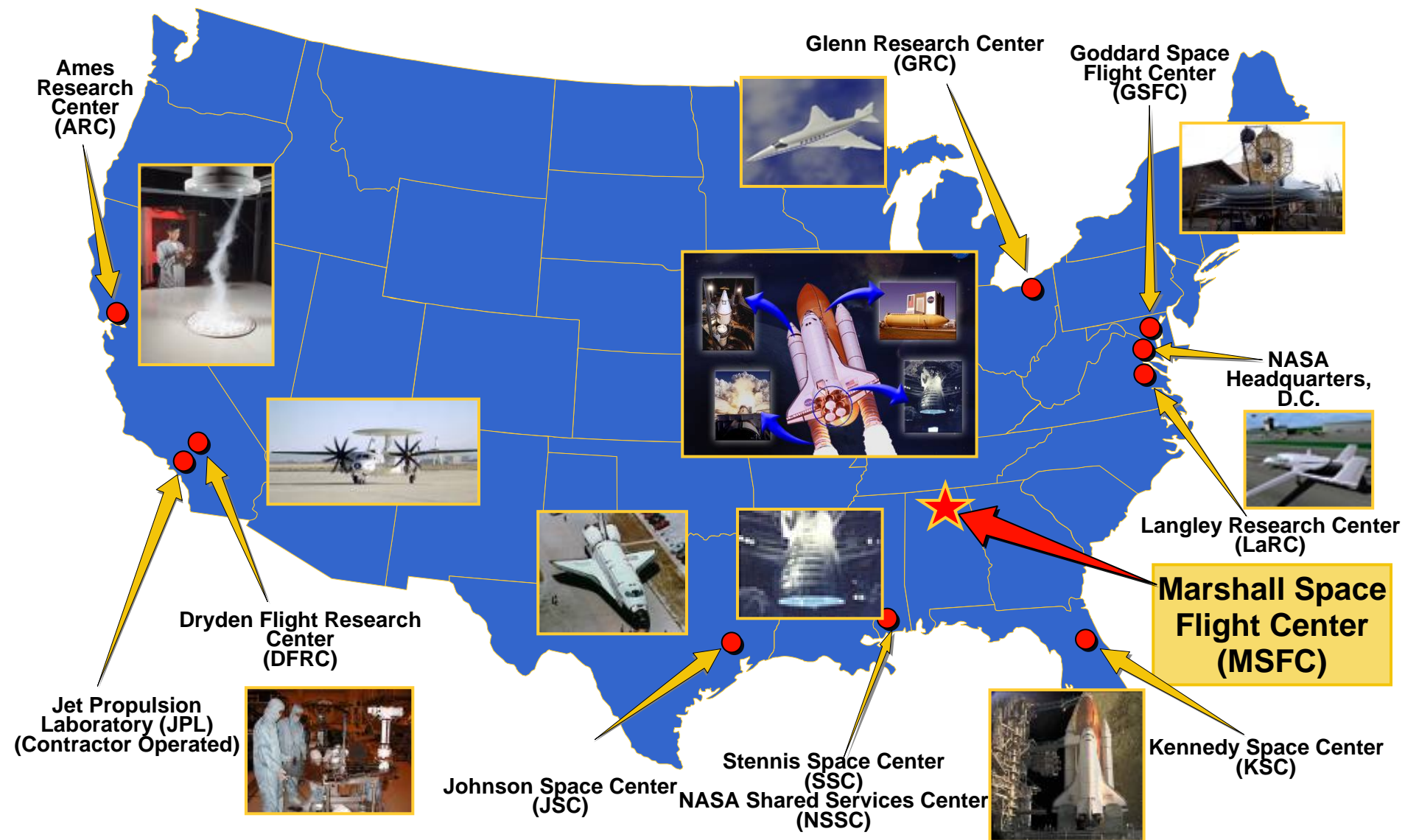
5 August 2008



***2nd Annual East Tennessee  
Veterans Conference***



# NASA Centers Nationwide



- **Four Mission Directorates and Ten Centers**



## **Space Operations**

- Johnson Space Center
- Marshall Space Flight Center
- Kennedy Space Center
- Stennis Space Center



## **Aeronautics**

- Langley Research Center
- Glenn Research Center
- Dryden Flight Research Center



## **Science**

- Goddard Space Flight Center
- Ames Research Center
- Jet Propulsion Laboratory (JPL) – Cal Tech



## **Exploration Systems**

- Various



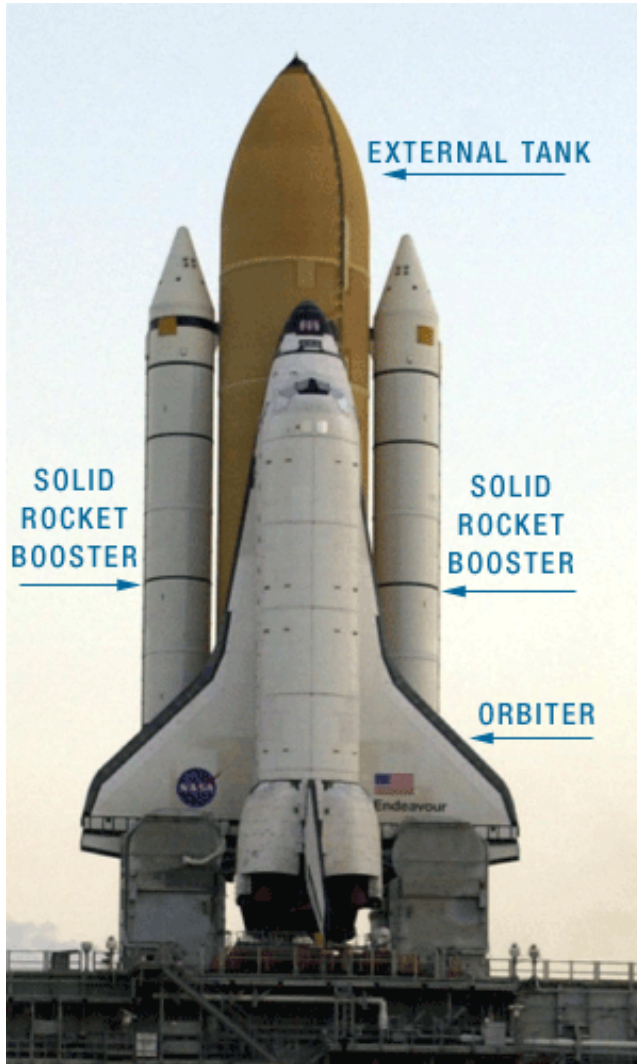


# Vision for Space Exploration

- **Goal 1:** Safely fly the Shuttle until its retirement in 2010.
- **Goal 2:** Complete the International Space Station in a manner consistent with NASA's International Partner commitments and the needs of human exploration.
- **Goal 3:** Develop a balanced overall program of science, exploration, and aeronautics with the focus on exploration.
- **Goal 4:** Bring a new Crew Exploration Vehicle into service as soon as possible after Shuttle retirement.
- **Goal 5:** Encourage the pursuit of appropriate partnerships with the emerging commercial space sector.
- **Goal 6:** Establish a human lunar return program with an eye for later human missions to Mars and other destinations.



# Space Shuttle Program



- The world's first reusable spacecraft, and the first spacecraft in history that can carry large satellites both to and from orbit.
- Launches like a rocket, maneuvers in Earth orbit like a spacecraft and lands like an airplane.
- Orbits the earth at 115 to 400 statute miles with a velocity of over 17,321 mph
- **The most reliable launch record of any rocket now in operation.** Since 1981, it has boosted more than 1.36 million kilograms (3 million pounds) of cargo into orbit. More than 600 crew members have flown on its missions.



# International Space Station Program



- Altitude: ~200 miles above earth
- Velocity: 17,240 MPH, completing 15.7 orbits per day
- Joint project between United States (NASA), Russia (RKA), Japan (JAXA), Canada (CSA), several European countries (ESA), and Brazil (AEB).
- World-class research platform for biomedical, biotechnology, fluid physics, material science, quantum physics, astronomy and meteorology.
- Permanently manned since November 2, 2000. Visited by over 137 people to date.



# Marshall Space Flight Center

▶ **Integral to NASA's Future - 45 Years Providing America's Space Solutions**

## **Our Property**

- Center occupies 1,841 acres of property within the 38,000 acre perimeter of the Redstone Arsenal in Huntsville, Alabama
- Adjacent to Cummings Research Park; the University of Alabama, Huntsville; and the U.S. Space and Rocket Center

## **Our Staff**

- The Center employs about 6,500 people onsite (~2,500 Civil Service and 4,000 contractors)

## **Our Space**

- The Center occupies 237 buildings and structures that occupy 4.5 million square feet of technical and office space



**Our Impact:**  
**Budget of \$2.2B/year**



# MSFC's Product Lines/Competencies

▶ **Our Product Lines Are Integral to NASA's Mission & Enabling Exploration**

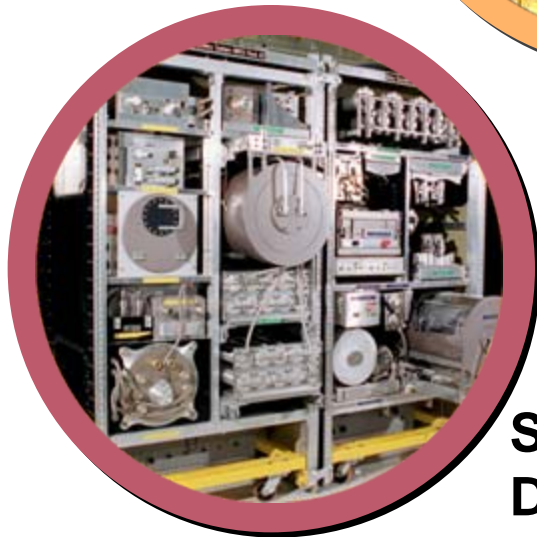
**Space  
Transportation  
& Propulsion  
Systems**



**Scientific  
Spacecraft  
Instruments  
& Research**



**Advanced Materials  
& Manufacturing  
Processes**



**Space Systems  
Development & Integration**







# MSFC Focus on Shuttle & Station

## Space Shuttle – 25 years of flight

- External tank
- Main engines
- Reusable solid rocket boosters
- Reusable solid rocket motors



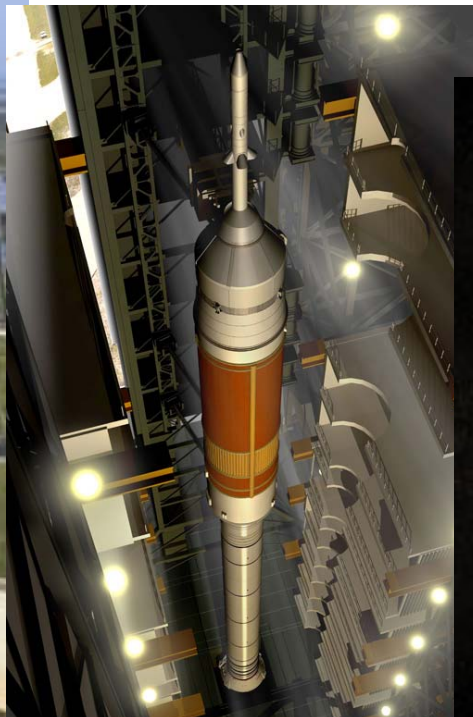
## International Space Station 7 years of habitation

- Payload Operations Center – Science management
- Node 2 (connector module) & Node 3 (life support module)
- Multi-Purpose Logistic Modules
- Environmental Control & Life Support Systems
- Microgravity Science Glovebox
- Space Station Materials Science Research Rack



# Project Constellation

- **NASA's Constellation Program is building the next generation of spacecraft for human exploration.**
  - The Orion Crew Exploration Vehicle (CEV) will launch on the Ares I rocket.
  - The Ares V will launch cargo.





# Ares I 2007 Contract Awards

PROGRAM	COMPETITION	CONTRACT #	AWARD RECIPIENTS(S)
First Stage	Sole Source	NNM07AA75C	ATK Launch Systems
First Stage Roll & Control Engine Thrusters	Unrestricted	NNM07AA83C	Aerojet
Upper Stage Instrument Unit Avionics	Unrestricted	NNM08AA16C	The Boeing Company
J2-X Engine	Unrestricted	NNM06AB13C	Pratt & Whitney Rocketdyne
Upper Stage Production	Unrestricted	NNM07AB03C	The Boeing Company
Upper Stage Pre-Valves	Unrestricted	NNM07AA86C- Moog NNM07AA87C-Vacco	Moog, Inc. Vacco Industries
Upper Stage Vent & Relief Valves	Unrestricted	NNM07AA91C	Vacco Industries



# MSFC Competitive Acquisition Projections (24Months)

POP Expires	Incumbent	Title	Value	Anticipated Competition	RFP Release
02/28/2010	SAIC, Inc.	Engineering Cost Analysis Technologies Development	\$15.0M	Full & Open	October 2009
11/30/2009	None	NASA Integrated Communications Services	TBD	Full & Open	November 2008
11/30/2009	SAIC, Inc.	Marshall Information Technology Services	TBD	TBD	November 2008
11/30/2009	None	NASA Business Applications (IEMP)	TBD	Full & Open	November 2008





# MSFC Competitive Acquisition Projections (24 Months)

POP Expires	Incumbent	Title	Value	Anticipated Competition	RFP Release
03/31/2010	SEI Group	Facilities Engineering Design Services	\$20.0M	SBA 8(a)	October 2009
09/08/2010	Great Southern Engineering	Environmental Engineering Services	\$25.0M (not to exceed)	A&E SB Set-Aside	February 2010
09/30/2010	Digital Fusion Solutions, Inc.	Acquisition and Business Support Services	\$50.0M	GSA Logworld SB Set-Aside	January 2010
10/14/2010	Jacobs Technology	Engineering, Scientific, and Technical Services	\$500.0M	Full & Open	November 2009



# Ares V

- Earth Departure Stage
- Earth Departure Stage J-2X Engine
- Core Stage
- Core Stage Reusable Solid Rocket Boosters
- RS-68 Engine (cluster of five)
- Shroud
- System Integration



- Have individual Industry Assistant Offices
- Have dedicated Small Business Specialist(s)
- Engage in outreach efforts
- Do procurement independently of other Centers



# SBS Assistance

- Provide organizational overviews
- Identify marketable areas
- Provide names of key procurement & technical contacts
- Familiarize businesses with various business development programs
- Discuss NASA's prime contractor subcontracting programs
- Discuss future acquisitions





# First Visit

- Present a summary of the company's core competencies
- Provide a brief overview of the company's business classification(s) and size
- Provide a brief overview of the company's past performance



# When Pursuing Competitive Acquisitions

- Start the marketing process 18 to 24 months prior to the period of performance expiration date
- Let the SBS know of your interest
- Review the statement of work (if available)
- Respond to sources sought/request for information
- Closely review draft request for proposals
- Attend industry briefings and participate in site visits



# Other Things to Consider

- Competition Type
- North American Industry Classification System (NAICS) Code and size standard to be utilized
- Level of subcontracting (if applicable)
- Request for proposal (RFP)/ request for quote (RFQ) release date
- Key procurement and technical contacts

- How does the Company's core competencies align with the statement of work
- Ask questions and present capabilities to key procurement and technical personnel
- Make competitive determination (Prime or Subcontractor)
- Establish teaming relationships (if applicable)





# Doing Business with the George C. Marshall Space Flight Center Web Site

[http://ec.msfc.nasa.gov/msfc/doin\\_bus.html](http://ec.msfc.nasa.gov/msfc/doin_bus.html)

- Contacts
- Assistance
- Calendar of Events

- NASA Acquisition Internet Service
- NASA Acquisition Internet Service  
Online Registration

- Acquisition Planning Tool
- MSFC Prime Contractor List
- MSFC Support Contracts List
- MSFC Small Business Coordinators
- Acquisition Forecast

- Small Business Innovation Research Program
- Small Business Technology Transfer Program

- **MSFC Small Business Directory**
- **MSFC Hardware Fabrication, Machining,  
and Assembly Services Directory**
- **Small Business Product Offerings  
Directory**
- **Small Business Innovative Research  
Vendor Web Site**



- Marshall Prime Contractor Supplier Council (MPCSC)
- Marshall Small Business Alliance (MSBA)



# Desirable Contractor Attributes

- Team player
- Customer focus
- Reasonable cost
- Good safety record
- Relevant experience
- Reliable, responsive, and flexible



# Keys To Success

- Planning: Your Roadmap To Success:

“Absent planning In One’s Life or Business is like a ship upon the sea without a rudder” (*Earl Nightingale*)

- Planning Primary Reason For Business Failures

- Build A Dream Team:

- Need A Team To Obtain A Dream
- Attract To Your Team The Best, Keenest and Brightest
- Team Is “Together Everyone Achieves Miracles”

- Network Your Way To Success:

- Your Network Will Determine Your Net Worth
- You Have To Make Contacts To Make Contracts
- Create Relationships With Hinges That Never Rust

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